

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10766, 528

CRF Edit Date: 8/25/04
Edited by: KE

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

ENTERED

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: ☒ invalid beginning/end-of-file text ; ☐ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



IFWO

RAW SEQUENCE LISTING

DATE: 08/25/2004

PATENT APPLICATION: US/10/766,528

TIME: 10:50:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

3 <110> APPLICANT: Salzwedel, Karl
 4 Li, Feng
 5 Wild, Carl T.
 6 Allaway, Graham P.
 7 Freed, Eric O.
 9 <120> TITLE OF INVENTION: Inhibition Of Hiv-1 Replication By Disruption Of The

Processing

10 Of The Viral Gag Capsid (Ca) Protein From The Ca-Spacer Peptide 1
 11 Protein Precursor
 13 <130> FILE REFERENCE: 1900.0430002
 15 <140> CURRENT APPLICATION NUMBER: 10/766,528
 16 <141> CURRENT FILING DATE: 2004-01-29
 18 <150> PRIOR APPLICATION NUMBER: 60/443,180
 19 <151> PRIOR FILING DATE: 2003-01-29
 21 <150> PRIOR APPLICATION NUMBER: 60/496,660
 22 <151> PRIOR FILING DATE: 2003-08-21
 24 <160> NUMBER OF SEQ ID NOS: 11
 26 <170> SOFTWARE: PatentIn version 3.2
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 10
 31 <212> TYPE: PRT
 32 <213> ORGANISM: HIV-1
 35 <220> FEATURE:
 36 <221> NAME/KEY: MISC FEATURE
 37 <222> LOCATION: (4)..(4)
 38 <223> OTHER INFORMATION: Xaa can be either Val or Ile
 41 <400> SEQUENCE: 1

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44 1 5 10
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 49 <212> TYPE: PRT
 50 <213> ORGANISM: HIV-1
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 55 1 5 10
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 61 <213> ORGANISM: HIV-1
 63 <400> SEQUENCE: 3
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 66 1 5 10
 69 <210> SEQ ID NO: 4

RAW SEQUENCE LISTING

DATE: 08/25/2004

PATENT APPLICATION: US/10/766,528

TIME: 10:50:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

70 <211> LENGTH: 1823

71 <212> TYPE: DNA

72 <213> ORGANISM: NL4-3

75 <220> FEATURE:

76 <221> NAME/KEY: misc_feature

77 <222> LOCATION: (1365)..(1365)

78 <223> OTHER INFORMATION: n is a, c, g, or t

80 <400> SEQUENCE: 4

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85 ctagaacgat tcgcagttaa tcctggcctt ttagagacat cagaaggctg tagacaaata 180
87 ctgggacagc tacaaccatc ccttcagaca ggatcagaag aacttagatc attatataat 240
89 acaatagcag tcctctattg tgtgcatcaa aggatagatg taaaagacac caaggaagcc 300
91 ttagataaga tagaggaaga gcaaaacaaa agtaagaaaa aggcacagca agcagcagct 360
93 gacacaggaa acaacagcca ggtcagccaa aattacccta tagtcagaa cctccagggg 420
95 caaatggtac atcaggccat atcacctaga actttaaatg catgggtaaa agtagtagaa 480
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99 ccacaagatt taaataccat gctaaacaca gtggggggac atcaagcagc catgcaaattg 600
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117 agagttttgg ttgaagcaat gagccaagta acaaattccag ctaccataat gatacagaaa 1140
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133 tagaagaaat gaatttgcca ggaagatgga aacccaaaaat gataggggga attggagggt 1620
135 ttatcaaagt aagacagtat gatcagatac tcatagaaat ctgcggacat aaagctatag 1680
137 gtacagtatt agtaggacct acacctgtca acataattgg aagaaatctg ttgactcaga 1740
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147 <213> ORGANISM: NL4-3

149 <400> SEQUENCE: 5

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154 ctagaacgat tcgcagttaa tcctggcctt ttagagacat cagaaggctg tagacaaata 180
156 ctgggacagc tacaaccatc ccttcagaca ggatcagaag aacttagatc attatataat 240
158 acaatagcag tcctctattg tgtgcatcaa aggatagatg taaaagacac caaggaagcc 300

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RAW SEQUENCE LISTING

DATE: 08/25/2004

PATENT APPLICATION: US/10/766,528

TIME: 10:50:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

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162 gacacaggaa acaacagcca ggtcagccaa aattacccta tagtgcagaa cctccagggg 420
164 caaatggtac atcaggccat atcacctaga acttttaaatg catgggtaaa agtagtagaa 480
166 gagaaggctt tcagcccaga agtaataccc atgttttcag cattatcaga aggagccacc 540
168 ccacaagatt taaataccat gctaaacaca gtgggggggac atcaagcagc catgcaaagt 600
170 ttaaaagaga ccatcaatga ggaagctgca gaatgggata gattgcatcc agtgcaagca 660
172 gggcctattg caccaggcca gatgagagaa ccaaggggaa gtgacatagc aggaactact 720
174 agtacccttc aggaacaaat aggatggatg acacataatc cacctatccc agtaggagaa 780
176 atctataaaa gatggataat cctgggatta aataaaatag taagaatgta tagccctacc 840
178 agcattcttg acataagaca aggaccaaaag gaacccttta gagactatgt agaccgattc 900
180 tataaaactc taagagccga gcaagcttca caagaggtaa aaaattggat gacagaaacc 960
182 ttgtttggtc aaaatgcgaa ccagatttgt aagactatgt taaaagcatt gggaccagga 1020
184 ggcacactag aagaaatgat gacagcatgt caggaggtgg ggggacccgg ccataaagca 1080
186 agagttttgg ctgaagcaat gagccaagta acaaatccag ctaccataat gatacagaaa 1140
188 ggcaatttta ggaaccaaag aaagactgtt aagtgtttca attgtggcaa agaagggcac 1200
190 atagccaaaa attgcagggc ccctaggaaa aagggtgtt ggaaatgtgg aaaggaagga 1260
192 caccaaatga aagattgtac tgagagacag gctaattttt tagggaagat ctggccttcc 1320
194 cacaagggaa ggccaggga tttcttcag agcagaccag agccaacagc cccaccagaa 1380
196 gagagcttca ggtttgggga agagacaaca actccctctc agaagcagga gccgatagac 1440
198 aaggaactgt atcctttagc ttccctcaga tctactcttg gcagcgaccc ctgctcacia 1500
200 taaagatagg ggggcaatta aaggaagctc tattagatac aggagcagat gatacagtat 1560
202 tagaagaaat gaatttgcca ggaagatgga aacaaaaaat gataggggga attggaggtt 1620
204 ttatcaaagt aagacagtat gatcagatac tcatagaaat ctgcgacat aaagctatag 1680
206 gtacagtatt agtaggacct acacctgtca acataattgg aagaaatctg ttgactcaga 1740
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214 <211> LENGTH: 1982
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216 <213> ORGANISM: HIV-1RF
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222 <223> OTHER INFORMATION: n i a a, c, g, or t
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227 ttaaggccag ggggaaagaa aagatataag ttaaaacata taatatgggc aagcaggag 120
229 ctagaacgat ttgctgtcaa tcctggcctt ttagagacag cagagggctg tagacaaata 180
231 ctgggacagc tacaaccagc ccttcagaca ggatcagaag aacttaaate attatataat 240
233 gcagtagcaa ccctctattg tgtacatcaa aatatagagg taagagacac caaggaagct 300
235 ttagacaaga tagaggaaga gcaaaacaaa agtaagaaaa aagcacagca agcagcagct 360
237 gacacaggaa acggcagcca ggtcagccaa aattacccta tagtgcagaa ccttcagggg 420
239 caaatggtac atcaagccat atcacctaga acttttaaatg catgggtaaa agtagtagaa 480
241 gagaaggctt ttagcccaga agtaataccc atgttttcag cattatcaga aggagccacc 540
243 ccacaagatt taaacaccat gctaaacaca gtgggggggac atcaagcagc catgcaaagt 600
245 ttaaaagaga ctatcaatga ggaagctgca gaatgggata gattgcatcc agtgcaagca 660
247 gggcctattg caccaggcca gatgagagaa ccaaggggaa gtgacatagc aggaaccact 720
249 agtacccttc aggaacaaat aggatggatg acaaataatc cacctatccc agtaggagaa 780
251 atctataaaa ggtggataat tctgggatta aataaaatag taagaatgta tagccccatc 840

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RAW SEQUENCE LISTING

DATE: 08/25/2004

PATENT APPLICATION: US/10/766,528

TIME: 10:50:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

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257 ttgctggtcc aaaatgcgaa cccagattgt aaaactattt taaaagcatt gggaccagca 1020
259 gctacactag aagaaatgat gacagcatgt caggagtag ggggaccag ccataaagca 1080
261 agaatttttg ctgaagtaat gagccaagta acaaattcag ctaccataat gctgcagaaa 1140
263 ggtaatttta gggaccaaag aaaaattgtt aagtgtttca actgtggcaa agtagggcac 1200
265 atagccaaaa attgcagggc ccctaggaaa aagggtgtt ggaaatgtgg aaaggaagga 1260
267 caccaaatga aagattgcac tactgaggga cgacaggcta attttttagg gaaaatctgg 1320
269 ccttcccaca agggaaggcc agggaacttt cttcagagca gaccagagcc aacagcccca 1380
271 ccagaagaga gcttcagggt tggggaagag acaactccct ctcaagca ggagaagata 1440
273 gacaaggaac tgtatccttt agcttccctc aaatcactct ttggcaacga cccatcgtca 1500
275 cagtaaagat aggggggcaa ttaaaggaag ctctattaga tacaggagca gatgatacag 1560
277 tattagaaga aatgaatttg ccaggaaaat ggaaaccaa aatgatagg ggaattggag 1620
279 gttttatcaa agtaaggcag tatgatcaa tactcataga aatctgtgga cataaagcta 1680
281 taggtacagt attagtagga cctacacctg tcaacataat tggaagaaat ctgttgactc 1740
283 agattggttg cactttaaat ttcccatata gtcctattga aactatacca gtaaaattaa 1800
285 agccaggaat ggatggccca aaagttaaac aatggccatt gacagaggaa aaaataaaag 1860
287 cattgataga aatttgtaca gaaatggaaa aggaaggaaa aatttcaaaa attgggcctg 1920
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296 <212> TYPE: DNA
297 <213> ORGANISM: HIV-1RF
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304 ctagaacgat ttgctgtcaa tcctggcctt ttagagacag cagagggtg tagacaaata 180
306 ctgggacagc tacaaccagc ccttcagaca ggatcagaag aacttaaatac attatataat 240
308 gcagtagcaa ccctctattg tgtacatcaa aatatagagg taagagacac caaggaagct 300
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318 ccacaagatt taaacaccat gctaaacaca gtggggggac atcaagcagc catgcaaatg 600
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322 gggcctattg caccaggcca gatgagagaa ccaaggggaa gtgacatagc aggaaccact 720
324 agtacccttc aggaacaaat aggatggatg acaaataatc cacctatccc agtaggagaa 780
326 atctataaaa ggtggataat tctgggatta aataaaatag taagaatgta tagcccatc 840
328 agcattcttg acataagaca aggacctaa gaacccttta gagactatgt agaccgggttc 900
330 tataaaactc taagagccga gcaagcttca caggatgtaa aaaattggat gacagaaacc 960
332 ttgctggtcc aaaatgcgaa cccagattgt aaaactattt taaaagcatt gggaccagca 1020
334 gctacactag aagaaatgat gacagcatgt caggagtag ggggaccag ccataaagca 1080
336 agaatttttg ctgaagcaat gagccaagta acaaattcag ctaccataat gctgcagaaa 1140
338 ggtaatttta gggaccaaag aaaaattgtt aagtgtttca actgtggcaa agtagggcac 1200
340 atagccaaaa attgcagggc ccctaggaaa aagggtgtt ggaaatgtgg aaaggaagga 1260
342 caccaaatga aagattgcac tactgaggga cgacaggcta attttttagg gaaaatctgg 1320
344 ccttcccaca agggaaggcc agggaacttt cttcagagca gaccagagcc aacagcccca 1380
346 ccagaagaga gcttcagggt tggggaagag acaactccct ctcaagca ggagaagata 1440

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RAW SEQUENCE LISTING

DATE: 08/25/2004

PATENT APPLICATION: US/10/766,528

TIME: 10:50:24

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

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350 cagtaaagat aggggggcaa ttaaaggaag ctctattaga tacaggagca gatgatacag 1560
352 tattagaaga aatgaatttg ccaggaaaat ggaaaccaa aatgataggg ggaattggag 1620
354 gttttatcaa agtaaggcag tatgatcaaa tactcataga aatctgtgga cataaagcta 1680
356 taggtacagt attagtagga cctacacctg tcaacataat tggaagaaat ctgttgactc 1740
358 agattggttg cactttaaat ttcccatata gtcctattga aactatacca gtaaaattaa 1800
360 agccaggaat ggatggccca aaagttaaac aatggccatt gacagaggaa aaaataaaag 1860
362 cattgataga aatttgtaca gaaatggaaa aggaaggaaa aatt 1904
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366 <211> LENGTH: 30
367 <212> TYPE: DNA
368 <213> ORGANISM: HIV-1
370 <400> SEQUENCE: 8
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375 <211> LENGTH: 30
376 <212> TYPE: DNA
377 <213> ORGANISM: HIV-1
379 <400> SEQUENCE: 9
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385 <212> TYPE: DNA
386 <213> ORGANISM: HIV-1
389 <220> FEATURE:
390 <221> NAME/KEY: misc_feature
391 <222> LOCATION: (10)..(10)
392 <223> OTHER INFORMATION: n is either g or a
394 <400> SEQUENCE: 10
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399 <211> LENGTH: 10
400 <212> TYPE: PRT
401 <213> ORGANISM: SIV mac239
403 <400> SEQUENCE: 11
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406 1 5 10

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/766,528

DATE: 08/25/2004
TIME: 10:50:25

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\08252004\J766528.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4 ✓
Seq#:4; N Pos. 1365 ✓
Seq#:6; N Pos. 1961 ✓
Seq#:10; N Pos. 10 ✓

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/766,528

DATE: 08/25/2004

TIME: 10:50:25

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08252004\J766528.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1320
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1920
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0



IFWO

RAW SEQUENCE LISTING

DATE: 08/23/2004

PATENT APPLICATION: US/10/766,528

TIME: 15:51:59

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\08232004\J766528.raw

3 <110> APPLICANT: Salzwedel, Karl
 4 Li, Feng
 5 Wild, Carl T.
 6 Allaway, Graham P.
 7 Freed, Eric O.
 9 <120> TITLE OF INVENTION: Inhibition Of Hiv-1 Replication By Disruption Of The
 Processing
 10 Of The Viral Gag Capsid (Ca) Protein From The Ca-Spacer Peptide 1
 11 Protein Precursor
 13 <130> FILE REFERENCE: 1900.0430002
 15 <140> CURRENT APPLICATION NUMBER: 10/766,528
 16 <141> CURRENT FILING DATE: 2004-01-29
 18 <150> PRIOR APPLICATION NUMBER: 60/443,180
 19 <151> PRIOR FILING DATE: 2003-01-29
 21 <150> PRIOR APPLICATION NUMBER: 60/496,660
 22 <151> PRIOR FILING DATE: 2003-08-21
 24 <160> NUMBER OF SEQ ID NOS: 11
 26 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply
 Corrected Diskette Needed

(pg. 1-2)

ERRORED SEQUENCES

398 <210> SEQ ID NO: 11
 399 <211> LENGTH: 10
 400 <212> TYPE: PRT
 401 <213> ORGANISM: SIV mac239
 403 <400> SEQUENCE: 11
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 406 1 5 10
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 E--> 411 1

Delete

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/766,528

DATE: 08/23/2004

TIME: 15:52:00

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\08232004\J766528.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
 L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1320
 L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1920
 L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
 L:409 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11 ✓
 M:332 Repeated in SeqNo=11